



**ICST 2025**

**Digital brochure**

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# WELCOME!

In this digital brochure you can find everything about ICST 2025 in Naples, Italy!

Follow along to learn about tracks, calls for papers, co-located workshops, planned events and activities!

ICST serves as a premier platform uniting researchers, scientists, engineers, and practitioners worldwide to showcase their cutting-edge research findings, innovative ideas, and practical applications in the domain of Software Testing, Verification, and Validation. The 18th edition of ICST, scheduled for 2025, will be held in Naples, Italy.

ICST 2025 will welcome high-quality submissions across various tracks, including (but not limited to) full research papers, short papers, posters, testing tools and demonstrations, industry perspectives, and doctoral symposium submissions. Additionally, the conference will host co-located events, including workshops, challenges and tutorials, and keynote addresses by eminent scientists. Stay tuned for additional details on tracks and co-located events!

All submissions will be rigorously peer-reviewed to ensure quality, originality, and relevance. Accepted research papers will be published in the conference proceedings with an IEEE catalog number and ISBN number. The proceedings will be submitted for publication in IEEE Xplore.



# TOPICS OF INTEREST

- AI-assisted software testing
- Automated test generation
- Formal verification
- Manual and social aspects of the software testing process
- Software reliability
- Static and dynamic analysis
- Test automation
- Continuous testing
- Sustainability of testing processes
- Testing in specific domains, such as mobile, web, embedded/cyber-physical systems, concurrent, distributed, cloud, GUI, context-aware, IoT, real-time systems, video games, augmented/virtual reality, blockchain, and quantum computing applications
- Test-driven development and Agile testing
- Testability, test design, and adequacy criteria
- Testing AI-based systems
- Testing LLMs
- Testing and development processes
- Testing, debugging, and repair tools
- Testing education
- Replications, empirical studies, case studies, experience reports
- Theory of software testing
- Validation and user acceptance techniques
- Data Privacy, Compliance, and Standards in Testing
- Testing of non-functional properties such as security, accessibility, usability, performance, and sustainability



# TRACKS

ICST 2025 will host a total of 11 tracks:

- Research Papers
- Industry
- Short Papers, Vision and Emerging Results
- Testing Tools and Data Showcase
- Technical Briefings and Tutorials
- Journal-First Papers
- Education
- Posters
- Doctoral Symposium
- Tool Competition: Self-Driving Car Testing
- Tool Competition: UAV Testing

# RESEARCH PAPERS TRACK

The Research Papers track of ICST 2025 invites high-quality submissions in all areas of software testing, verification, and validation. Papers for the research track should present novel and original work that advances the state-of-the-art. Case studies and empirical research papers are also welcome.

For more information, check out the Call for Papers on the [ICST website](#).

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## Important Dates

Abstract Submission Deadline	Wed 18 Sep 2024
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Full Paper Submission Deadline	Wed 25 Sep 2024
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Author Notification Deadline	Wed 11 Dec 2024
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Camera Ready	Wed 15 Jan 2025
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# INDUSTRY TRACK

The Industry track at ICST 2025 aligns seamlessly with the conference's overarching themes of innovation, quality, and practicality. We extend our warmest invitation to high-caliber submissions that transcend boundaries and bring a fresh perspective to the software testing field.

For more information, check out the Call for Papers on the [ICST website](#).

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## Important Dates

Abstract Submission Deadline	Fri 18 Oct 2024
Full Paper Submission Deadline	Fri 25 Oct 2024
Author Notification Deadline	Fri 6 Dec 2024
Camera Ready	Sun 19 Jan 2025

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# SHORT PAPERS, VISION AND EMERGING RESULTS TRACK

The Short Papers, Vision, and Emerging Results track at ICST 2025 provides a vibrant forum for forward-looking, innovative research in software testing. The main goal of the track is to accelerate the exposure of the software engineering community to early yet potentially ground-breaking research results, techniques, and perspectives that challenge the status quo in the discipline.

For more information, check out the Call for Papers on the [ICST website](#).

## Important Dates

Abstract Submission Deadline	Wed 20 Nov 2024
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Full Paper Submission Deadline	Wed 27 Nov 2024
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Author Notification Deadline	Sun 12 Jan 2025
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Camera Ready	Thu 13 Feb 2025
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# TESTING TOOLS AND DATA SHOWCASE TRACK

The Testing Tools and Data Showcase track at ICST 2025 seeks to bridge the gap between research and practice by focusing on software testing tools and their demonstrations that advance both the state of the art and the state of the practice. The track invites submissions that showcase tools and datasets at several stages of maturity from both academia and industry.

For more information, check out the Call for Papers on the [ICST website](#).

## Important Dates

Full Paper Submission Deadline	Wed 4 Dec 2024
Author Notification Deadline	Sun 19 Jan 2025
Camera Ready	Thu 13 Feb 2025

# TECHNICAL BRIEFINGS AND TUTORIALS TRACK

The Technical Briefings and Tutorials track at ICST 2025 will feature tutorials and technical briefings on the topics relevant to the conference. For a detailed list of issues, please see ICST topics of interest.

For more information, check out the Call for Papers on the [ICST website](#).

## Important Dates

Full Paper Submission Deadline	Thu 21 Nov 2024
Author Notification Deadline	Thu 19 Dec 2024
Camera Ready	Sun 19 Jan 2025



# JOURNAL-FIRST TRACK

The Journal-First track at ICST 2025 invites submissions for presentations of journal-first papers published recently in prestigious software engineering journals in all areas of software testing, verification, and validation. This will both enrich the ICST program as well as offer the authors an opportunity to present their work to the community.

For more information, check out the Call for Papers on the [ICST website](#).

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## Important Dates

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Submission Deadline	Sun 1 Dec 2024
Author Notification Deadline	Sun 15 Dec 2024

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# EDUCATION TRACK

The Education track at ICST 2025 seeks to gather and showcase top-quality contributions in the intersection between software testing and education, with a focus on difficulties, innovations, and best practices. We invite high-quality submissions related to applying software testing techniques in educational settings and teaching testing principles to different learners.

For more information, check out the Call for Papers on the [ICST website](#).

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## Important Dates

Paper Submission Deadline	Fri 25 Oct 2024
Author Notification Deadline	Sun 1 Dec 2024
Camera Ready	Sun 19 Jan 2025

# POSTERS TRACK

The Posters track at ICST 2025 provides an opportunity for researchers and practitioners to present, showcase, and discuss their latest advances, ideas, experiences, and challenges in the field of software testing, verification and validation.

For more information, check out the Call for Papers on the [ICST website](#).

## Important Dates

Poster Submission Deadline	Wed 8 Jan 2025
Author Notification Deadline	Fri 31 Jan 2025
Camera Ready	Thu 13 Feb 2025



# DOCTORAL SYMPOSIUM

The Doctoral Symposium at ICST 2025 invites PhD students to submit a short research summary describing the problem tackled in the PhD, some key results (if any), and a potential plan for the PhD program. The students will present their work at the symposium and will receive feedback from distinguished panel members.

For more information, check out the Call for Papers on the [ICST website](#).

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## Important Dates

Submission Deadline	Fri 20 Dec 2024
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Author Notification Deadline	Fri 24 Jan 2025
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Camera Ready	Fri 7 Feb 2025
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# TOOL COMPETITION: UAV TESTING

The Tool Competition: UAV Testing at ICST 2025 is designed to encourage the Software Testing community to direct its attention toward Unmanned Aerial Vehicles (UAVs) as a rapidly emerging and crucial domain. By using a common platform, the goal of the competing tools is to generate test cases for autonomous vision-based UAV navigation systems.

For more information, check out the Call for Papers on the [ICST website](#).

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## Important Dates

Tool Submission Deadline	Sun 17 Nov 2024
Results Notification Deadline	Sun 15 Dec 2024

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# TOOL COMPETITION: SELF-DRIVING CAR TESTING

The Tool Competition: Self-Driving Car Testing at ICST 2025 is designed to encourage the Software Testing community to direct its attention toward Self-Driving Cars (SDCs) as a rapidly emerging and crucial domain. The competition focuses on regression testing for test suites executing system tests of SDCs in simulation.

For more information, check out the Call for Papers on the [ICST website](#).

## Important Dates

Tool Submission Deadline	Fri 15 Nov 2024
Results Notification Deadline	Sun 15 Dec 2024
Tool Paper Camera- Ready	Fri 10 Jan 2025

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# SURROUNDING PROGRAM

ICST will also have exciting social events and further activities to round out the program of the conference.

Stay tuned for more details on social activities and co-located events!